

Choose The Correct Answer

Q1

SPEED The speed v of a vehicle in kilometers per hour can be represented by the following piecewise function when t is the time in seconds. Find the speed of the vehicle at each indicated time.

$$v(t) = \begin{cases} 4t & \text{if } 0 \leq t \leq 15 \\ 60 & \text{if } 15 < t < 240 \\ -6t + 1500 & \text{if } 240 \leq t \leq 250 \end{cases}$$

A

$V(245) = 30\text{Km/h}$

C

$V(245) = 50\text{Km/h}$

B

$V(245) = 40\text{Km/h}$

D

$V(245) = 60\text{Km/h}$

Q3

Which relation is NOT a function?

A

$\{(1,-5), (3,1), (-5,4), (4,-2)\}$

C

$\{(2,7), (3,7), (4,7), (5,8)\}$

B

$\{(1,-5), (-1,6), (1,5), (6,-3)\}$

D

$\{(3,-2), (5,-6), (7,7), (8,8)\}$

Q2

State the domain: $f(x) = \sqrt{2x-4}$

A

$(-\infty, 4]$

C

$(-\infty, 2]$

B

$[2, \infty)$

D

$(4, \infty]$

Q4

All of the y values or outputs are called what?

A

Domain

C

Range

B

Relation

D

Function

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